

The opinion in support of the decision being entered today was not written for publication and is not binding precedent of the Board.

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE BOARD OF PATENT APPEALS  
AND INTERFERENCES

Ex parte PETER KNOLL, JOHANNES ESCHLER and REINHOLD FIESS

Appeal No. 2006-0323  
Application 10/088,727

ON BRIEF

MAILED

MAR 08 2006

PAT. & T.M. OFFICE  
BOARD OF PATENT APPEALS  
AND INTERFERENCES

Before HAIRSTON, JERRY SMITH, and BARRY, Administrative Patent Judges.

JERRY SMITH, Administrative Patent Judge.

DECISION ON APPEAL

This is a decision on the appeal under 35 U.S.C. § 134 from the examiner's rejection of claims 16-42, which constitute all the claims pending in this application.

The disclosed invention pertains to a display apparatus for a vehicle. The display apparatus comprises a projection unit arranged on a vehicle roof or on an inside mirror of the vehicle

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and a display surface, which is outside the projection unit, onto which a real image is generated by the projection unit.

Representative claim 16 is reproduced as follows:

16. A display apparatus in a vehicle, comprising:

a projection unit arranged at least one of on a vehicle roof and on an inside mirror of the vehicle; and

a display surface, which is outside the projection unit, onto which a real image is generated by the projection unit.

The examiner relies on the following references:

Jost et al. (Jost)	4,919,517	Apr. 24, 1990
Hwang et al. (Hwang)	6,317,170	Nov. 13, 2001
Kleinschmidt	6,750,832	June 15, 2004
		(filed June 21, 1999)

Claims 16-42 stand rejected under 35 U.S.C. § 103(a). As evidence of obviousness the examiner offers Jost in view of Kleinschmidt with respect to claims 16-26 and 31-42, and Hwang is added to this combination with respect to claims 27-30.

Rather than repeat the arguments of appellants or the examiner, we make reference to the briefs and the answer for the respective details thereof.

#### OPINION

We have carefully considered the subject matter on appeal, the rejections advanced by the examiner and the evidence of obviousness relied upon by the examiner as support for the rejections. We have, likewise, reviewed and taken into

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consideration, in reaching our decision, the appellants' arguments set forth in the briefs along with the examiner's rationale in support of the rejections and arguments in rebuttal set forth in the examiner's answer.

It is our view, after consideration of the record before us, that the record in this case has not been sufficiently developed in order for us to render an opinion on the merits of the rejection. Accordingly, we remand this application to the examiner for a development of the issues discussed below.

We consider first the rejection of claims 16-26 and 31-42 based on Jost and Kleinschmidt. The examiner essentially finds that Jost teaches a projection unit (5) and a display surface (11) as claimed except that Jost does not teach what kind of image is generated on the display surface. The examiner cites Kleinschmidt as teaching the display of real images and virtual images within a vehicle. The examiner finds that it would have been obvious to the artisan to modify Jost to display a real image on the display surface by a projection unit as taught by Kleinschmidt [answer, pages 4-6].

Appellants argue that the references relied upon do not disclose or suggest the projection of a real image. Specifically, appellants argue that Jost produces a virtual image on the windshield via a mirror. Appellants further argue that a

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mirror surface, as taught by Jost, is not suitable for generating a real image. Appellants assert that nothing in the Kleinschmidt reference suggests the projection of a real image as claimed. Finally, appellants argue that the examiner's rejection is based on conclusory hindsight, reconstruction and speculation [brief, pages 9-13].

The examiner responds by providing definitions of the terms "real image" and "virtual image" taken from Wikipedia. The examiner notes that these definitions contradict appellants' assertion that a mirror cannot be used to generate a real image. The examiner reiterates that since Kleinschmidt teaches the desirability of real images in vehicles, it would have been obvious to the artisan to combine Jost with Kleinschmidt to achieve the claimed invention [answer, pages 11-14].

Appellants respond that this case should be remanded to the examiner so that appellants are given a full and fair opportunity to respond to the new references and definitions cited by the examiner. Appellants reiterate their position that Jost fails to teach the generation of a real image onto a display surface on the instrument panel of the vehicle via a projection unit arranged on the vehicle roof as claimed. Appellants substantially repeat the arguments made in the main brief [reply brief].

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We will remand this application to the examiner as requested by appellants. The patentability of the claims on appeal cannot be determined without a clear definition of what is meant by the term "real image." The definition of this term in Wikipedia could possibly suggest that a real image is present at mirror 11 or windshield 1 of Jost. An additional question would then arise as to whether either of these surfaces can be considered to be "a display surface" within the meaning of the claims on appeal. These questions need to be argued by appellants and the examiner in order for us to have an appropriate record to decide this appeal. The answer to these questions could eliminate the need to rely on Kleinschmidt to teach the generation of real images. Therefore, we remand this application to the examiner for a consideration of whether a real image within the meaning of the claims is generated upon surfaces 1 or 11 of Jost and whether surfaces 1 or 11 of Jost can meet the recitation of a "display surface" in the claims.

The examiner should address these questions in the form of a supplemental examiner's answer which fully elaborates on these questions. Appellants will be given the usual opportunity to respond to the points raised in the examiner's answer.

This application, by virtue of its "special" status, requires immediate action, see MPEP § 708.01 (Eighth Edition,

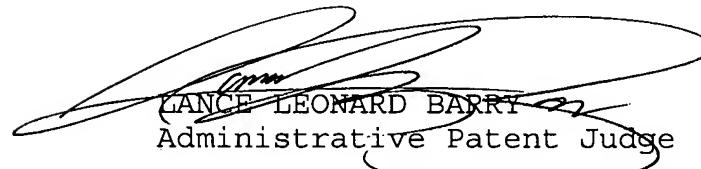
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Aug. 2001), item (D). It is important that the Board of Patent Appeals and Interferences be promptly informed of any action affecting the appeal in this case.

REMANDED

  
KENNETH W. HAIRSTON )  
Administrative Patent Judge )

  
JERRY SMITH )  
Administrative Patent Judge )

  
LANCE LEONARD BARRY )  
Administrative Patent Judge )

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